

Notes

Field trip to N. Mex; Texas,
Oklahoma, Missouri
and Arkansas

April 14 - May 23.
1970

①

Trip to NM, Texas, Okla, Kans.

April 14-18.

Left Washington 7:00 AM on April 14th and went to beyond Knoxville. Next day arrived in Benton, Arkansas. Third day went to Sweetwater Texas. Collected at Patman for a short time. Collected at Parsons on second day: yellow flowers & violets on first film. At Patman took yellow paint brush, onions and reddish flower to finish the roll.

Arrived in Tooe, N. Mex. at 4:30 PM on ~~the~~ fourth day, April 17.

On April 18th collected at type section of Pecos in morning and went to Kingston in afternoon. Several small snow storms during the afternoon.

At Hillsboro took several pictures of a castor, a small poppy and peculiar paint-brush-like flowers same as in Glass Mtn. Perhaps localities seem to have been much visited as collecting was rather poor. Perhaps
= SW SE 14-16⁵, 7W, 2 miles East of Hillsboro, ^{1st} Box.

Saw large Onopordum valves in top of orange drift bed of Taylor R.

April 19

To C to Lake Valley. Collected there all morning and to 3:30 o'clock. Returned to Alamogordo. A few flowers, blue, yellow, small legumes. Up to 14 on roll.

April 20

Went up Alamogordo Canyon. Collected Mes in morning, (Devonian in afternoon. Flowers abundant. Finished 2nd roll on Sacramento flowers. Cut trouble.

April 21

Car fixed in El Paso. Called on Elsers, Marathon & via Davis Mountains. Small pink (purple mat & yellow) on road up to Pine Spring Camp.

April 22

Went up to Split Tanks to look at Cathedral Mtn. Flowers everywhere. Desert more garden-like than I ever saw it in all the years I have been coming to Marathon. Many flowers never seen before. Pictures up to 25 including yellow primrose, blue star,

Pale purple penstemon, daisies,
Indian paint brush (Orange), small
pink star.

April 23.

Back to Cappell's place to check
over 703 b and 703 b.s. Went
to 703 a to collect some. Read
Canyon. Finished roll of film
here. Contains pinks, cactus at
tourist court (Claret cup, large orange
blooms). Started roll on next
camera.

April 24

Morning collected blocks at 703 A
Went out to Mtn. Front to
collect Taylor Ranch. Large
cactus clump, pinks. Took
pictures just N of Bess House.
Penstemon, small fine-spine cactus
with pink blossoms, purple stripes.
Nut farm patches on the base
of the hill, peculiar trumpet
blossom, up to 30 on camera.

April 25.

Bess Ranch to collect 706 e
and look at 720 e. Very
large Desmodium were

seen at 720 e, larger than I had
recoll leaving same before.
Biolumines are ~~ext~~ extensively
developed at this place!

In afternoon went home with
a load, then went back and
collected two lenses numbered
of 706 b. The lower one is
numbered 741 q. There are
87' measured on the surface
between the two lenses. The
upper lens is numbered 741 p.

April 26th

Went to Delle Range Collected
at 714 t, then crossed slope
above 707 a for Panopeltes.
Failed to find this but did
get an Orbiculoides. This
afternoon went to hill 4801
to study the biolumines. Conclusion
was that all are in place -
large boulders on west overlie
conglomerate. On west edge
of lasternmost biolumens
ab and in the boulder bed
Spirinellophora was seen
in a boulder just above
the one containing Saccinella.

April 27th

Reiced Ranch to Gates place
collected at 7400' in the
morning on the west end of
the hogback. Collected for
Taphroestria. Found one large
colony and took most of it.
Afternoon went up valley between
large hogback and clay slide hill.
Here on the north side near the
divide between the hills and
on the west slope of the valley
(7231? Check) we collected Metaceraspis
in thin bedded ls.

When on the east side of the
valley the thin bedded limestones
could be seenlapping onto
the reefy beds and also passing
into them. I think of the
possibility of this thick mass
being a reef or sand bank
with the more bedminous
limestone wrapping around
it, possibly lagoidal?

April 28th.

Out to Dugout Mountain. We went south along the front and found a road leading to a canyon located about on the 30°^{10'} parallel. In the front of the range are small buttes or hills formed of very steeply dipping rocks. Estimate the dip to range from near 30° at the bottom of the section to 60° or 70° in the upper part. The distances given opposite the units are slope elevations.

L. - contains *Xerofaia*, *Agelasia* & *Clavatella* - This section is mainly Cathedral Mtn.

I 25' basal bed of Cretaceous.

H 60' mostly covered but some thin yellow sandy or pebbly ls.

G 20' thin grayish ls. & blue shale with to 10' quartz zones ls. Dip 60°-70°

F 20' orange shaly rock in lower part, upper part yellow sandy

E 35' thin shale but mostly massive dolomitic ls. Fossils all broken

D 15' gray, eph. ls.

C 25' Top 10' in rusty eph.

B 15' Blatty ls. & shale

A covered

April 29.

Went out to collect 931 u in morning. Brought in 5 blocks. Went to Alpine for socks and supplies. Packed all blocks in afternoon from 2:30 P.M. to 5:30 P.M. 35 bundles in all.

April 30.

Southwest Pacific refused shipment. Mr. Welden went with us to Alpine with it. Had lunch with Welden in Alpine. Afternoon Mr. Welden took us to Dagger Flat to see Yuccas. Tremendous display.

May 1

Left Mera River at 8:35. Went to Big Spring for lunch and on to Coleman for the night. Collected at locality east of Santa Anna. Locality much passed over and basically done for.

May 2.

From Coleman made a loop to Ballinger to collect more localities 9857 and 9843.

About 10 miles S of east of
Ballinger. Went S through
Paint Rock to Millersview
and Doole to Saddle Creek
south of Rockwood. Had
difficulty finding the locality
and collecting was poor.

May 3.

Went to Brownwood, took
Texas 229 to junction with
Texas 15 and went east
3½ miles. Collecting poor.
Went to 1½ miles S of Gundlach
Collecting again poor. Both
of these places are about
played out.

May 4

Collected on Texas 148, 5½ miles
N of its junction with US 281 on
the north side of Jacob's Bro. The
collecting was very good.
Afternoons went out to Gundlach
Garn which was also very
good.

Pickers - pink solitary cast iron
from Gundlach mostly huge
specimens from Jacob's Bro (5 miles E)

May 5.

Made a vain search for Mrs. Reinhard's ~~Stradley~~ BelSol locality. ~~Afternoon~~ ~~to~~ ~~the~~ Stradley School was about 5 miles S of Texas 24 on the road to Goford.

Found a disappointing locality on Texas 306 15 miles north of Poston's Chapel and 0.5 mile west of the road. Went to Riley farm first of morning. Collecting place is at 1500 feet NE of the old house. Collecting for afternoon.

Visited quarry 5 1/4 miles west of Cisco. Texas highway 1810. Collecting about 2 hours.

Went on to Ardmore for night. Last flowers in Texas were a patch of bluebonnets at edge of Saint Jo, Texas. First flowers in Oklahoma are Indian paintbrush just N of Oklahoma line.

Texas 24 has been re-routed through Jacksonville. The road now known as Texas 59 & nearly to Cimarron. From there to Cimarron is Texas 1810. Last flowers in Texas on

another roll are milkweed
and large penstemon. These
were taken with 40 mm. lens

May 6

Called at Univ. of Oklahoma for
maps. Went east to Vinita.
Collected Hullessville, 6 miles E
and one mile N of Vinita

May 7.

Went to Adair, collected all
morning at place three miles
E and $2\frac{1}{4}$ miles S of Adair.
Collecting superb. Afternoon
went to locality $3\frac{1}{2}$ miles E
and $3\frac{1}{4}$ miles S of Adair.
Found new place on Okla 28
3-3 miles E of Adair. Had
many daffodil and Pugnoides.
Large purple pea, yellow lily, poppies.

Flowers

May 8.

Went 5 miles E to junction
of 60 & Okla 82 to look for new
stratified genus. Failed to find
it. Went to 2-3 miles E of
Kenwood to collect ~~at~~ wild
ref. Collecting not good but
some good things taken.

May 9.

Went to Qualls to collect probable
Hindsville in small structure
NE of Qualls, 3 miles by road
in SE 1/4 SW 1/4 29-15 N-22 E.
The fauna seems to me to be
Hindsville

Collected Fayetteville on
road about 1.85 miles by road
NW of Qualls in SE cor NW 1/4
35-15 N-21 E,

May 10.

To Teukiller Lake to collect
Moorefield (Ondinause Plant Member)
NW 1/4 SE 1/4 10-13 N-21 E, SW end
Teukiller Ferry Reservoir.

Bloyd, SW 1/4 NE 1/4 10-13 N-21 E,
Intersection of Okla 10 A with
road picnic ground.

Collected on Okla 10, Fayetteville
~~SW 1/4~~ SE 1/4 NW 1/4 21-15 N-20 E,
2 miles 5 + 3/2 E of Fort
Gibson, Oklahoma

SW 1/4 SE 1/4 20-15 N-20 E, Moorefield
in ditch and stream bed

May 11.

Went out 7 miles E and $1\frac{1}{2}$ miles south of Fort Gibson. Old road in notch between hills is passable and we took it. About $\frac{1}{2}$ way up hill Fayetteville is well exposed. Collection made here SW $\frac{1}{4}$ NE $\frac{1}{4}$ 18-15N-21E in Cherokee Co.

Moorefield exposed in woods on south side of road in NW $\frac{1}{4}$ NW $\frac{1}{4}$ 18-15N-21E, in Cherokee County.

May 12.

Collected all day on bluff over Bayou Manard. Uppermost bed contains *Flexaria* and *Moorefieldella*. Below it is a bed replete with *Ovadia*. Between them comes a bed with *Spinifer* & *Moorefieldella*. Packed 7 bags.

May 13.

Left Muskogee at 8:15 AM and went to Fairfax where we collected along old RR $3\frac{1}{2}$ miles E of town. Rats now taken away but collecting fair.

Went from Fairfax to Burbank which is not now on US ~~60~~ 60 which has been moved south of town. The old quarry on the south of the old US ~~60~~ 60 is now greatly enlarged and has a much longer section. Found some Teguliferina but did not go in the operating gy.

From Burbank we went to Dexter and collected from road cut 3.7 miles south of town. Collecting not too good.

May 14.

Went to Dexter, on Kans. 15, east line, section 36, 3 miles and $3\frac{1}{2}$ miles N of Dexter, Dexter 7 $\frac{1}{2}$ ' sheet, Kansas 32.5-6E.

Derbyia bed on US 160, $1\frac{1}{4}$ miles E of East edge of Burden, Cambridge (7 $\frac{1}{2}$ ' [1], Kansas).

22

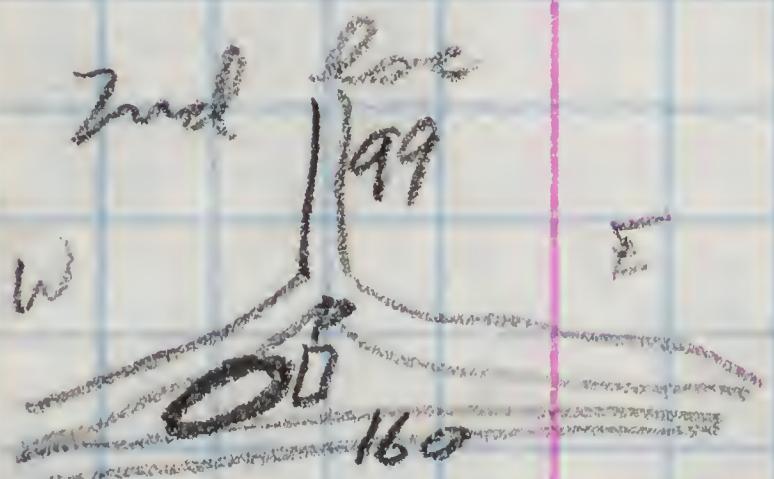
Collected at Grand Summit.
Cattle tank now breached &
not good collecting. Walked
hill for about $\frac{1}{2}$ mile. Collecting
good. Probably SW $\frac{1}{4}$ 4-315-8E

On US 160 one mile E of
Cowley-Elk County line NE
corner ~~SE~~ $\frac{1}{4}$ 15-
~~SW~~ 315-8E, one mile E of
Cowley-Elk County line,
Grand Summit $7\frac{1}{2}'$ D,
Kansas.

May 15

Mokane

3rd locality 0.2 mile W of
school at road bend to creek.



4th loc. From middle of ~~Mokane~~
(US 160) on 160 for 0.7 mile E
of Mokane, N side R.R. about 2'.
0.1 mile E of switch crossing
road. About 0.3 mile from ~~base~~
junction with 99. $7\frac{1}{2}'$

May 15
1st locality ~~NE 1/4~~
Newor NE $\frac{1}{4}$ 13-30S-10E,
1 $\frac{1}{4}$ miles S of S edge of
Howard, Kansas.

2nd loc. in triangle at
intersection of Kansas 99 & US 60
about one mile E of Moline, Kans.

3rd locality 0.2 mile west of
junction Kans. 99 & US 160 on US 160.

4th loc. On US 160, 0.7 mile E
of Moline and 0.3 mile west
of junction of 99 & US 160.

Visited locality N of Copan 5 miles
7.2 miles E of US 75, SW $\frac{1}{4}$ SW $\frac{1}{4}$
23-29NT 13E, Washington Co.,
Oklahoma. Cattle tank put
in on old RR grade. Collecting
not so good but many
Leiobius taken.

Stayed at Schwinn Motel
Coffeyville, Kansas.

Quarry in May 16
NE $\frac{1}{4}$ E $\frac{1}{4}$ 30-28N-15E, Nowdale,
1.3 mi N of Enid, Okla.
Coffeyville Fm.

Stopped at Lawrence to collect
chert NW $\frac{1}{4}$ NW $\frac{1}{4}$ 35-25N-
34W, about $\frac{3}{4}$ mile N of
Lawrence, Missouri.

May 17.

Went to quarry at Neosho. Outcrop
now nearly gone but got some
good stuff. After lunch went
north to exposure near Lepton
Ford. Collecting moderately good.
Came home about 3:30. Packed 8
bundles for shipment.

May 18.

Junction of US 71 + ~~the~~ Missouri
R. Chattanooga shale overlain
by thick ls. Shale at base =
St. Jo and cherty above.

Near the base of Fayetteville
fm, Center Sline of NE $\frac{1}{4}$ 16-
17-29W, 2.4 miles ~~NE~~
Nw of Hobbs, 3 miles E
and 2 miles S of Springdale
Sonora 7 $\frac{1}{2}$ \square , Arkansas.

Grayland
Vermilion

Trucking - Motor freight
Campbell 66 EXP 523 E. Spring

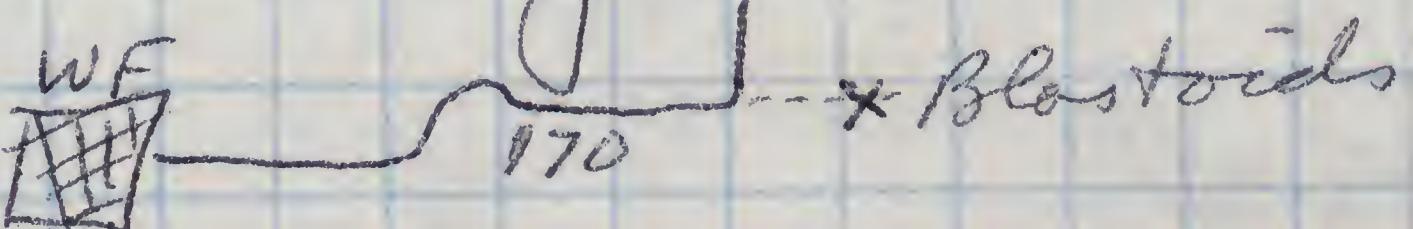
Jones Truck line 437 Smith

May 19.

1050 paces S on RR from
road crossing creek and RR
at Woolsey at 2625'. This makes
it about ~~4 1/4 NW 1/4 422 - 14 N~~
30W NW cor 22-14N-30W

0.2 mile on US 76 north of
junction of road from Woolsey
long bluff in Brentwood
(Bloyd fm about SW 1/4 NE 1/4 16-
14N-30W, Winslow quadrangle.

Brentwood blastoids found
about 1/4 mile west of sharp
turn in Ark. 170 about one
mile W. of West Fork.



May 20.

Went to Hubert locality east of Elkins reached $2\frac{1}{2}$ miles E of Elkins, left on dirt road $\frac{1}{2}$ mile to divide. Locality is on S nose of a small hill on east side of divide or saddle -

$N\frac{1}{2}SE\frac{1}{4}SE\frac{1}{4}32-16N-28W$,
Goshen $7\frac{1}{2}'$ II, Arkansas. Upper Fayetteville.

Second locality visited in lower Fayetteville is $\frac{1}{2}$ mile S of Wyman in bluff of White River, here flooded in 50' cor. 9 and ~~100' cor.~~ $N\frac{1}{4}NW\frac{1}{4}16-16N-29W$, Elkins $7\frac{1}{2}'$ □, Arkansas. About 50' above reservoir level.

May 21

South of Mt. Judea for upper Boone then drove to Forest City, Ark on way home.

May 22

Forest City, Ark to Rogersville, Tenn.

May 23

Rogersville to home at 3:00

